Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at http://about.jstor.org/participate-jstor/individuals/early-journal-content.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

VOL. XXXVII, NO. 442 OCTOBER. 1903

THE AMERICAN NATURALIST

A MONTHLY JOURNAL
DEVOTED TO THE NATURAL SCIENCES
IN THEIR WIDEST SENSE

CONTENTS

			Page
I.	Adaptations to Aquatic, Arboreal, Fossorial and Cursorial Habits in Mammals. I. Aquatic Adaptations	RAYMOND C. OSBURN	651
II.	Amitosis in the Egg Follicle Cells of the Cricket	PROFESSOR E. G. CONKLIN	667
III.	New Species of Plants from the Matawan Formation	EDWARD W. BERRY	677
IV.	Some Remarks on the Fossil Fishes of Mount Lebanon, Syria	DR. O. P. HAY	685
V.	On the Osteology and Systematic Position of the Kingfishers (Halcyones)	DR. R. W. SHUFELDT	697
VI.	Quarterly Record of Gifts, Appointments, Retirements and Deaths		727

BOSTON, U. S. A.

GINN & COMPANY, PUBLISHERS

29 BEACON STREET

New York 70 Fifth Avenue | Chicago 378-388 Wabash Avenue | London, W. C. 9 St. Martin's Street

Entered at the Post-Office, Boston, Mass., as Second-Class Mail Matter.

The American Naturalist.

ASSOCIATE EDITORS:

J. A. ALLEN, PH.D., *American Museum of Natural History, New York.*
E. A. ANDREWS, PH.D., *Johns Hopkins University, Baltimore.*
WILLIAM S. BAYLEY, PH.D., *Colby University, Waterville.*
CHARLES E. BEECHER, PH.D., *Yale University, New Haven.*
DOUGLAS H. CAMPBELL, PH.D., *Stanford University.*
J. H. COMSTOCK, S.B., *Cornell University, Ithaca.*
WILLIAM M. DAVIS, M.E., *Harvard University, Cambridge.*
ALÈS HRDLICKA, M.D., *U.S. National Museum, Washington.*
D. S. JORDAN, LL.D., *Stanford University.*
CHARLES A. KOFOID, PH.D., *University of California, Berkeley.*
J. G. NEEDHAM, PH.D., *Lake Forest University.*
ARNOLD E. ORTMANN, PH.D., *Carnegie Museum, Pittsburg.*
D. P. PENHALLOW, S.B., F.R.M.S., *McGill University, Montreal.*
H. M. RICHARDS, S.D., *Columbia University, New York.*
W. E. RITTER, PH.D., *University of California, Berkeley.*
FRANK RUSSELL, PH.D., *Harvard University, Cambridge.*
ISRAEL C. RUSSELL, LL.D., *University of Michigan, Ann Arbor.*
ERWIN F. SMITH, S.D., *U. S. Department of Agriculture, Washington.*
LEONHARD STEJNEGER, LL.D., *Smithsonian Institution, Washington*
W. TRELEASE, S.D., *Missouri Botanical Garden, St. Louis.*
HENRY B. WARD, PH.D., *University of Nebraska, Lincoln.*
WILLIAM M. WHEELER, PH.D., *University of Texas, Austin.*

THE AMERICAN NATURALIST is an illustrated monthly magazine of Natural History, and will aim to present to its readers the leading facts and discoveries in Anthropology, General Biology, Zoology, Botany, Paleontology, Geology and Physical Geography, and Mineralogy and Petrography. The contents each month will consist of leading original articles containing accounts and discussions of new discoveries, reports of scientific expeditions, biographical notices of distinguished naturalists, or critical summaries of progress in some line; and in addition to these there will be briefer articles on various points of interest, editorial comments on scientific questions of the day, critical reviews of recent literature, and a quarterly record of gifts, appointments, retirements, and deaths.

All naturalists who have anything interesting to say are invited to send in their contributions, but the editors will endeavor to select for publication only that which is of truly scientific value and at the same time written so as to be intelligible, instructive, and interesting to the general scientific reader.

All manuscripts, books for review, exchanges, etc., should be sent to THE AMERICAN NATURALIST, Cambridge, Mass.

All business communications should be sent direct to the publishers.

Annual subscription, $4.00, net, in advance. Single copies, 35 cents.
Foreign subscription, $4.60.

GINN & COMPANY, PUBLISHERS.